Patent Claims

- 1. Method providing protection from unauthorized access to a field device connected over a data bus with a control unit, characterized in that stored in the field device is a security program, which performs an authorization examination in the case of an accessing of the field device over the data bus.
- 2. Method as claimed in claim 1, characterized in that the security program is part of a function block.
- 3. Method as claimed in claim 1, characterized in that the security program is part of firmware stored in the field device.
- 4. Method as claimed in one of the preceding claims, characterized in that the security program includes a security key, which is stored in the field device during configuration of the field device.
- 5. Method as claimed in one of the preceding claims, characterized in that the security key is an at least 128-bit code.
- 6. Method as claimed in one of the preceding claims, characterized in that the security key is created during installation of the field device.
- 7. Method as claimed in one of the preceding claims 1-5, characterized in that the security key is provided by the field device.
- 8. Method as claimed in one of the preceding claims, characterized in that the security key is regularly renewed.
- 9. Method as claimed in one of the preceding claims, characterized in that the security key is renewed hourly.

- 10. Method as claimed in one of the preceding claims, characterized in that the security key is stored only in the field device.
- 11. Method as claimed in one of the preceding claims, characterized in that the field devices are sensors, actuators, controllers, PLCs or gateways.